

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 03/40271

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 D21H21/16

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 257 772 A (NIPPON OIL CO LTD ; SEIKO KAGAKU KOGYO CO LTD (JP); HOKUETSU PAPER MIL) 2 March 1988 (1988-03-02) claims 1-7; example 1	1,12,16, 17,23, 26,30,31
X	US 4 832 792 A (MAZZARELLA EMIL D ET AL) 23 May 1989 (1989-05-23) claims 1-13; example 1	1,30,31, 33
X	US 4 657 946 A (BRESLIN MICHAEL D ET AL) 14 April 1987 (1987-04-14) claims 1-12; examples 1-3	1,30,31, 33
A	US 4 040 900 A (MAZZARELLA EMIL D ET AL) 9 August 1977 (1977-08-09) the whole document	1-33
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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A	WO 97/30218 A (HERCULES INC ; BRUNGARDT CLEMENT L (US); RIEHLE RICHARD J (US); ZHANG) 21 August 1997 (1997-08-21) the whole document	1-33
A	US 6 248 164 B1 (HAAKANSSON PHILIP) 19 June 2001 (2001-06-19) the whole document	1-33
A	US 4 687 519 A (JAROWENKO WADYM ET AL) 18 August 1987 (1987-08-18) the whole document	1-33

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